WHITEHOUSE COMPARES GOOD AND

"Warrenite." Asphalt-Macad- from voids than is found in asphalt am and Concrete Taken Up in City Engineer's Report

Road work and road materials, especially those most suitable for Honecially those most suitable for Hono-lulu and Oahu, are taken up in detail in the following report made to the board of supervisors by City and County Engineer L. M. Whitehouse, which deals especially with the Kala-kaus project: kaus project: Frontage to Be Assessed.

is 13,790.0 feet. City and County frontage is 1339.5 ft. or 9.7 per cent of entire frontage. U. S. military reservation frontage is 1050.6 ft. or 7.7 mates of Cost. per cent of entire frontage. Church frontage is 192.3 ft. or 1.4 per cent of No. 2 shown in the estimate in Section

"Total frontage for which City and county must pay, in addition to 33 1-3 improvement exclusive of new curbper cent of cost of entire improvement less new curbing, is 2591.4 feet, or 18.8 per cent of entire frontage, which at \$1.15, \$36,800. Total, \$59,124.

per square foot, and which may be paving is 62.2 per cent of the estimat-counted on as an objecting frontage, ed cost of the entire improvement less of the improvement, the less will be is 3779.6 ft. or 27.4 per cent of the new curbing. entire frontage.

MATES OF COST.

"Advantages of using asphalt mac"The unit price of \$1.80 per square
yard was obtained by using the figure
submitted by J. A. Gilman of \$1.70 per
square yard for the paving of Lusitana street, exclusive of grading, and
adding thereto \$0.10 per square yard
to cover the difference in haul inwolved."

"Advantages of using asphalt mac"Relatively low cost.

"Assurance of harmony with the
Rapid Transit in completing the improvement.

"Capability of using the asphalt
macadam at the end of its lifetime as
a base for a new wearing surface of

"Excluding the cost of new curbing, which remains a constant for any type of pavement and which is paid for by a separate assessment of \$0.40 per front foot by all frontage requiring such new curbing, the estimates of cost for the entire improvement using warrenite on a six-inch crushed rock base are as follows:

"Grading 32,000 sq. yds. at \$0.20, \$6,420; warrenite paving, 32,000 sq. yds. at \$1.80, \$57,600; moving old curbing, 5850 lineal feet at 0.12, \$702; concrete gutters, 3060 sq. yds. at \$1.70, \$5202; storm sewer, \$8000; engineering and superintendence, \$2000. Total, in and superintendence, \$2000. Total, \$22,324. Excluding the cost of new curbing,

\$5202; storm sewer, \$8000; engineer shown ing and superintendence, \$2000. Total, \$22,324.

sive of new curbing, after city and

pense is justifiable.

Conclusions.

tion as asphalt macadam does.

"Disadvantages. There are no prac-

in paving Kalakaua avenue except its

"Not more than three classes of

nue, three facts among others should

be kept in mind: First, twenty-seven and four-tenths (27.4) per cent of the

entire frontage represents property of

low value in its present condition, the

ment under the law and the present

"Third, no matter how desirable or

may be, its first cost, under the con-

dition obtaining on Kalakaua avenue,

vember 1, and the great mass of work-

for workers in nearly every division

of the factory.

"Disadvantages of using warrenite on a 6 inch crushed rock base are: "The ultimate failure of the crushed higher cost as shown by comparing rock base due to the continued pres the assessments per front foot given

"The total frontage to be assessed portion of Kalakaua avenue occupied

II, paragraph No. 2 above, to remain

gives a total cost to the city and county of about 46.0 per cent of the entire sive of new curbing after city and cost of the improvements, less new county has paid 331-3 per cent of pected to object unless the improvements.

"Total fronters of property of property of pected to object unless the improvements." "Total frontage of preperty consisting of duck-ponds, worth about \$0.02 \$28,082. Cost of asphalt macadam unit assessment.

"The probable life of asphalt mac-WARRENITE PAVEMENT, ESTI- adam on Kalakaua avenue will be sev- policy laid down by your board: "Advantages of using asphalt mac how economical a particular pavement

"Assurance of harmony with the should be the controlling factor in its

a base for a new wearing surface of warrenite or other similar mixture. "Disadvantages of using asphalt

ds., at \$1.60, \$51,200. Total, \$73,524. buildings every afternoon at 5 o'clock,

"A smooth surface free from waves cars to customers-many of whom or ruts, provided the asphalt wearing are anxiously waiting. coat is properly maintained.

The company has an extensive wel-"An excellent foundation is afford- fare department, operating night ed upon which to place a bituminous schools for foremen and assistant concrete wearing surface such as war- foremen, and a school for apprentices renite at any time such additional ex- who are frained to become foremen "Does not require perfectly dry

weather conditions for its constructical disadvantages for using concrete

pavements have been compared above is said to be in the eating. The proof for the reason that other pavements of good dry cleaning is shown after do not admit of consideration under one week's wear. Expert cleaning, the particular conditions applying to scientific methods, such as we use, Kalakaua avenue. A cheaper pave clean through and through, not superment was not considered owing to its ficially. Phone 1491 or 2919 for the short life and high maintenance ex. French Laundry.-Adv.

pense. A more durable pavement, of The Adams Express Company have which there are many, was not considered on account of a prohibitive first declared regular quarterly dividend of \$1 per share out of net earnings "In drawing a conclusion from the from the express business and net reabove data, as to what type of pave- venue from investments held by the ment should be used on Kalakaua ave. trustees, payable Dec. 1

To the **Public**

I have severed my connection with the firm of Mederos & Mattos Plumbing Co., 816 S. King street, and take pleasure in informing my friends and the public that I am now located at 918 Alakea street, near King, and am prepared to do the best plumbing and metal work.

C. L. ALMEDIA



have complimented us both on the quality

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Lewers & Cooke, Ltd.,

MOSULS, ETC., ETC.

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S. S. Matsonia leaves Dec. 15th All shipments for Pacific Coast points must leave on this boat to be delivered Christmas morning

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